

May 10, 2006

MEMORANDUM

TO: Mr. Steve Murray, P.L.S. - Tippecanoe County Surveyor

FROM: David W. Eichelberger, P.E. - CBBEL, Indianapolis

PROJECT: **St. Andrew United Methodist Church
CBBEL Project No. 02-038 (ER)**

DEVELOPER/OWNER: **St. Andrew United Methodist Church**

LOCATION: **40° 29' 09" Latitude
-86° 54' 51" Longitude**

RECOMMENDATION: **Final Approval with Conditions**

St. Andrew United Methodist Church is proposing to construct a new church and associated parking on 18.3 acres located on the east side of County Road 50 West, approximately 1000' south of County Road 500 North in Wabash Township. The current land use is agricultural fields and pasture. Drainage for the site is primarily from east to west to the County Road 50 West right-of-way. In the developed condition, drainage from the site will be collected into a system of swales and culverts and directed into two dry detention basins, with the outlet being the right-of-way of County Road 50 West. The final outlet is Boes Ditch to the south of the site.

Based on information available to CBBEL, it does not appear that a Tippecanoe County Regulated Drain exists on the project site. There are no regulated drain outlets, crossings, or encroachments proposed with this development. The project site is within the Tippecanoe County MS4 Area.

This project was previously reviewed in memorandums dated February 21, and April 12, 2006. This project was granted final approval with conditions at the May 3, 2006 Tippecanoe County Drainage Board meeting. The applicant has submitted additional information to address the conditions of approval. After a review of the additional information, the following conditions must still be addressed:

Stormwater Quantity

1. The latest grading plan submitted for review labels the proposed driveway culvert as both an 18" diameter pipe and a 24" diameter pipe. The calculations indicate that the culvert will be a 24" diameter pipe. The applicant should resolve this discrepancy. In addition, although the emergency spillway for the north pond has been removed from the grading plan, it appears that the grading in this area will still allow this pond to overflow into the roadside ditch upstream of the driveway culvert. It appears that the grading in this area should be revised to an elevation of approximately 672.0.

2. The condition of Boes Ditch, downstream of C. R. 50 West to C. R. 500 North, should be documented in the drainage report. The documentation should include both narrative and photographic elements.
3. The applicant should submit final, certified copies of the drainage report, the construction plans, and the O & M Manual that include the latest revisions.

Stormwater Quality

1. The applicant has submitted a completed "Recorded Master Covenant and Agreement Regarding On-Site BMP Maintenance and Drainage". This agreement must be recorded before final plan approval and sign-off will be granted by the County Surveyor's Office.

General Conditions

1. The applicant should still obtain approval from the Tippecanoe County Highway Department for all work proposed within future right-of-way areas and for all work within the C. R. 50 West Right-of-Way.
2. The applicant must pay any final drainage review fees per Ordinance 2005-04-CM and submit a letter to the County Surveyor's Office stating that these fees will be paid.
3. The applicant must pay the Phase II stormwater program fees.
4. All listed issues must be completely addressed before final plan approval and sign-off will be granted by the County Surveyor's Office.

No error or omission in either the plans, calculations or applications (whether said plans, calculations or applications have been reviewed by the review engineer or not) shall permit or release the applicant and designer from constructing this work in any other manner than that provided for in the County Ordinance.

pc: T-Bird

DWE/sb

M02-038ER3.DOC